

APPENDIX A

WORKSHOP PARTICIPANTS



Workshop on Information Needs to Address Children's Cancer Risk

Holiday Inn Arlington at Ballston
Arlington, VA
March 30-31, 2000

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APPENDIX B

LIST OF OBSERVERS



Workshop on Information Needs to Address Children's Cancer Risk

Holiday Inn Arlington at Ballston
Arlington, VA
March 30-31, 2000

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APPENDIX C

MEETING AGENDA

Workshop Agenda

Information Needs to Address Children's Cancer Risk

Holiday Inn Arlington at Ballston
4610 North Fairfax Drive
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Thursday, March 30, 2000 and Friday, March 31, 2000

Thursday, March 30, 2000

6:00 - 7:00 PM	Registration	Eastern Research Group, Inc.
7:00 - 7:15 PM	Welcome by Sponsors	William Farland/George Lucier
	Introduction of Workshop Leads	
7:15 - 7:30 PM	Introductions	Participants
7:30 - 7:40 PM	Charge to Workshop Participants	Ramona Trovato, EPA
7:40 - 7:50 PM	Discussion	Participants
7:50 - 8:15 PM	<i>Sensitivity of Children to Environmental Toxicants</i>	Lynn Goldman, John Hopkins
8:15 - 8:30 PM	Discussion	Participants
8:30 - 8:55 PM	<i>Exposure of Children to Environmental Toxicants</i>	Phil Landrigan, Mount Sinai
8:55 - 9:10 PM	Discussion	Participants
9:10 - 9:20 PM	Comments from Observers	Observers
9:20 - 9:30 PM	Session Wrap-up/Logistics	George Lucier, NIEHS

Friday, March 31, 2000

8:00 - 8:30 AM	Registration	Eastern Research Group, Inc.
8:30 - 8:55 AM	TOPIC 1: <i>Current and Proposed Approaches to Assessing Children's Cancer Risk</i>	William Farland, EPA
8:55 - 9:35 AM	Facilitated Discussion	Abe Tobia, Aventis CropScience Lauren Ziese, CalEPA Dan Krewski, Univ. of Ottawa
9:35 - 9:45 AM	Comments/Questions	Observers
9:45 - 10:15 AM	Coffee Break	



Friday, March 31 continued

10:15 - 10:40 AM	TOPIC 2: <i>Enhanced Use of Test Data Related to Children's Cancer Risk</i>	Shelly Tyl, Research Triangle Inst.
10:40 - 11:50 AM	Facilitated Discussion	Mark Miller, CalEPA Paul Foster, CIIT Frederica Perera, Columbia Univ.
11:50 - 12:00 Noon	Comments/Questions	Observers
12:00 - 1:00 PM	Lunch	
1:00 - 1:25 PM	TOPIC 3: <i>Future Directions for Toxicology Testing to Address Children's Cancer Risk</i>	Retha Newbold, NIEHS
1:25 - 2:05 PM	Facilitated Discussion	George Lambert, EOHSI David Wallinga, NRDC Joseph DeGeorge, FDA
2:05 - 2:15 PM	Comments/Questions	Observers
2:15 - 2:45 PM	Break	
2:45 - 3:15 PM	TOPIC 4: <i>Epidemiologic/Molecular Epidemiology Information to Address Children's Cancer Risk</i>	Les Robison, Univ. of Minnesota (Ellen Silbergeld, Univ. of Maryland)
3:15 - 3:55 PM	Facilitated Discussion	Michael Thun, Amer. Cancer Soc. Lucy Anderson, NCI Chris Portier, NIEHS
3:55 - 4:15 PM	Comments/Questions	Observers
4:15 - 5:00 PM	Workshop Summary/Next Steps	George Lucier

APPENDIX D

CHARGE TO PARTICIPANTS

Information Needs to Address Children's Cancer Risk

Thursday, March 30, 2000 and Friday, March 31, 2000

at the

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The purpose of the workshop is focused and derives from issues discussed in the EPA's 1999 Draft Revised Guidelines for Carcinogen Risk Assessment.

What is the content of the ideal data set to adequately address children's cancer risk?

The workshop participants will focus on data needed for assessing the impact of childhood (including *in utero*) exposures to carcinogens and the issues related to hazard identification and dose-response analyses. The participants will address not only induction of childhood cancer, but also increased risks of cancer during adulthood resulting from childhood exposure. As part of this discussion, the participants also will be asked to consider how current protocols might be redesigned to better answer questions related to children's cancer risk and what additional types of data might be brought to bear on children's cancer risk assessment. This would include information that is currently collected as well as data sets using new approaches.

What are the elements of a "cogent biological rationale," as presented in the draft revised cancer guidelines (July 1999 Draft), for addressing modes-of-action for children's cancer?

Participants will address whether and how such a rationale can be made, which is sufficiently health-protective of children, based on the kinds of data that are typically collected by and available to Federal and state health science agencies at the present time. These might include data on cancer mode-of-action, comparative pharmacokinetics and pharmacodynamics in adults and children, rate and pattern of exposure in adults and children, etc. The background for these discussions is the reality that chemical-specific data are often lacking to specifically address children's cancer risk from environmental chemical exposures. As a consequence, the assessment of children's risk is currently addressed by evaluations of traditional cancer bioassays in mature animals using sensitive responders, comparative biochemistry and physiology between adults and developing animals and humans, and public-health-protective default positions in the absence of child-specific data.

It is expected that workshop discussions will be valuable to the general risk assessment community, will provide input to Federal testing strategies for the future, and will inform the public dialogue around children's health issues as they are addressed in the EPA's draft revised cancer guidelines. A summary report of the perspectives and views coming out of this workshop will be published in the peer-reviewed, scientific literature.

APPENDIX E

OVERHEADS USED IN THE PRESENTATIONS

Overheads from
Welcome and Charge to Workshop Participants
(William Farland and Michael Firestone)

Replace this page with e-1.ppt

Overheads from
Sensitivity of Children to Environmental Toxicants
(Lynn Goldman)

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Overheads from
Children's Environmental Health
(Lynn Goldman)

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Overheads from
Exposure of Children to Environmental Toxicants
(Philip Landrigan)

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Overheads from
Topic 1: Current and Proposed Approaches to Assessing Children's Cancer Risk
(William Farland)

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Overheads from
Frederica Perera's Comments on Topic 1: Current and Proposed Approaches to
Assessing Children's Cancer Risk

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Overheads from
Topic 2: Enhanced Use of Test Data Related to Children's Cancer Risk
(Rochelle Tyl)

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Overheads from
Topic 3: Future Directions for Toxicology
Testing to Address Children's Cancer Risk
(Retha Newbold)

No electronic version of this section is available.

Overheads from
David Wallinga's Comments on Topic 3: Future Directions for Toxicology Testing
to Address Children's Cancer Risk

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Overheads from
Topic 4: Epidemiologic/Molecular Epidemiology Information to Address
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Overheads from
Workshop Summary
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No electronic version of this section is available.

APPENDIX F

LIST OF BACKGROUND MATERIALS PROVIDED TO PARTICIPANTS PRIOR TO THE MEETING

Document entitled “Comparison of the effects of chemicals with combined perinatal and adult exposure vs. adult only exposure in carcinogenesis bioassays.”

Report of the 1996 FIFRA Scientific Advisory Panel meeting addressing “Comparison of the effects of chemicals with combined perinatal and adult exposure vs. adult only exposure in carcinogenesis bioassays.”

Document entitled “A proposed OPP policy on determining the need for *in-utero*/perinatal carcinogenicity testing on a pesticide.”

Report of the 1997 FIFRA Scientific Advisory Panel meeting addressing “A proposed OPP policy on determining the need for *in-utero*/perinatal carcinogenicity testing on a pesticide.”

Background paper on availability of toxicity testing data for assessing cancer risk.

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